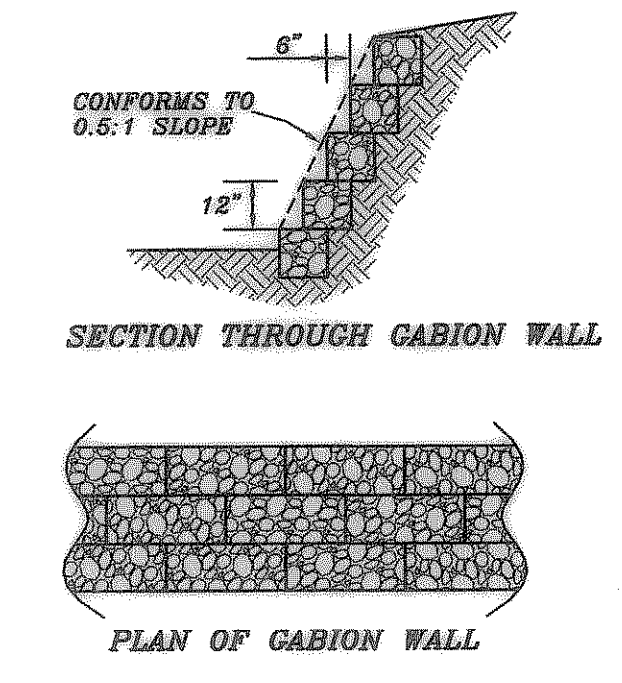


100 YEAR DETENTION 19,008 C.F. W.S. ELEV. 550.97  
 50 YEAR DETENTION 15,507 W.S. ELEV. 550.60  
 25 YEAR DETENTION 13,692 W.S. ELEV. 550.33  
 10 YEAR DETENTION 10,356 W.S. ELEV. 549.92

18" ORIFACE EQUATION  
 $Q = 0.62A(2gh)^{1/2}$   
 $H = 550.97 - 545.18 = 5.79$   
 $4.04 = (0.62)(A)(64.4X5.13)^{1/2}$   
 $A = 0.34 \text{ S.F.}$

10 YEAR ALLOWABLE DISCHARGE  $Q = 3.87$   
 25 YEAR ALLOWABLE DISCHARGE  $Q = 4.48$   
 50 YEAR ALLOWABLE DISCHARGE  $Q = 4.98$

10 YEAR DISCHARGE  $Q = (0.62)(.34)(64.4X4.34)^{1/2} = 3.88$   
 25 YEAR DISCHARGE  $Q = (0.62)(.34)(64.4X5.15)^{1/2} = 3.84$   
 50 YEAR DISCHARGE  $Q = (0.62)(.34)(64.4X5.42)^{1/2} = 3.94$



9/05

AS BUILT

REVISION	1/17/05	HAROLD L. EVANS CONSULTING ENGINEER P.O. BOX 570355-75370 2381 GUS THOMASSON ROAD, SUITE 102 DALLAS, TEXAS 75226, (214) 328-8133	GRADING PLAN		SHEET NO.	
REVISION	1/27/05		CHILDRENS PARK II		4	
REVISION	2/15/05		STEGER TOWNE CROSSING, PHASE II		7	
REVISION DESCRIPTION		DATE	SCALE	DESIGN	DRAWN	JOB NO.
		12/8/04	1" = 30'	H.L.E.	AC	04053
				CITY OF ROCKWALL		